(REV 10-2000)									
TRANSMITTAL LETTER TERGE PRIPEDO TAIS AUG 2001 UR-027-USA-PCT									
	DESIGNATED/ELECT	ED OFFICE (DO/EO/US)	U.S. APPLICATION NO. (If known, see 37 CFR 1.5)						
• (CONCERNING A FILIN	09/090284							
	ATIONAL APPLICATION NO.	INTERNATIONAL FILING DATE	PRIORITY DATE CLAIMED						
	JP00/00850	February 16, 2000	February 24, 1999						
TITLE OF INVENTION DEVICE FOR IONTOPHORESIS									
APPLICANT(S) FOR DO/EO/US Kazutaka Inoue, Hirotoshi Adachi, Hiroyuki Maeda, Naruhito Higo									
Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:									
1. X	This is a FIRST submission of items concerning a filing under 35 U.S.C. 371.								
2.	This is a SECOND or SUBSEQUENT submission of items concerning a filing under 35 U.S.C. 371.								
3. X	This is an express request to promptly begin national examination procedures (35 U.S.C. 371(f)).								
4. X	The US has been elected by the expiration of 19 months from the priority date (PCT Article 31).								
5. X	A copy of the International Application as filed (35 U.S.C. 371(c)(2))								
	a. is attached hereto (required only if not communicated by the International Bureau).								
	b. An has been communicated by the International Bureau.								
. [c. is not required, as the application was filed in the United States Receiving Office (RO/US).								
6.	An English language translation of the International Application as filed (35 U.S.C. 371(c)(2)).								
7. X	Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3))								
	a. are attached hereto (required only if not communicated by the International Bureau).								
5. 5.	b. have been communicated by the International Bureau.								
	c. have not been made; however, the time limit for making such amendments has NOT expired.								
]	d. X have not been made and will not be made.								
8. 📙	9. An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)).								
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10.									
Items 1	11 to 16 below concern document	(s) or information included:							
11.	An Information Disclosure Statement under 37 CFR 1.97 and 1.98.								
12. X	An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included.								
13.	13. A FIRST preliminary amendment.								
	A SECOND or SUBSEQUENT preliminary amendment.								
14.	A substitute specification.								
15.	A change of power of attorney and/or address letter.								
16. X	Other items or information: Claim For Priority								

17. X The foll	owing fees are submitted:	A9/20	90284	CALCULATI	ONS PIOUSEONLY				
BASIC NATION	AL FEE (37 CFR 1.492 (a)	(1) - (5)):	518 Par'd I	PUTITA	1 3 AUG 2001				
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	ENTER APPROP	RIATE BASIC FEE AM	IOUNT =	\$ 860					
C 60120	00 for formishing the coth	or declaration later than 2	0						
months from the	.00 for furnishing the oath earliest claimed priority dat	s -0-							
CLAIMS	NUMBER FILED	NUMBER EXTRA	RATE						
Total claims	7 - 20 =	-0-	X \$18.00	s -0-					
Independent claims	3≈ - 3 =	-0-	X \$80.00	"					
MULTIPLE DEPE	NDENT CLAIM(S) (if applica		+ \$270.00	\$ -0-					
	TOTAL C	rions =	\$ 860						
	Applicant claims small entity status. See 37 CFR 1.27. The fees indicated above \$ are reduced by 1/2.								
		TOTAL =	\$ 860						
Processing fee of	\$130.00 for furnishing the	English translation later than	□ 20 □ 30	s					
	earliest claimed priority dat		+_	3 -0	1-				
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Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be									
accompanied by a	an appropriate cover sheet (\$ 900							
TOTAL FEES ENCLOSED =					e \$				
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a. A check in the amount of \$_900 to cover the above fees is enclosed.									
	b. Please charge my Deposit Account No in the amount of \$ to cover the above fees. A duplicate copy of this sheet is enclosed.								
c. X The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. 20-1424. A duplicate copy of this sheet is enclosed.									
NOTE: Where an appropriate time limit under 37 CFR 1.494 or 1.495 has not been met, a petition to revive (37 CFR									
1.137(a) or (b)) must be filed and grante	d to restore the application to	pending status.	•					
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Washington, D. C. 20005					9				
Phone: 202-682-4727 REGISTRATION NUMBER									

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SPECIFICATION

DEVICE FOR IONTOPHORESIS

5 TECHNICAL FIELD

The present invention relates to a device for use in an iontophoresis apparatus that is applied to transdermal or transmcosal.

10 BACKGROUND ART

Iontophoresis is a percutaneous absorption promoting system using electricity, which is based on the principle that forces act on charged molecules such that positively charged molecules transfer from a positive electrode to a negative electrode and negatively charged molecules migrate from the negative electrode to the positive electrode in an electric field generated by passing of electric current, thereby accelerating drug delivery through skin barrier. (Refer to "Journal of Controlled Release", Vol. 18, 1992, pp. 213-220; "Advanced Drug Delivery Review", Vol. 9, 1992, p. 119; and "Pharmaceutical Research", Vol. 3, 1986, pp. 318-326.)

There are conventional means for checking whether the transfer of molecules (including drug) is normally carried out. For example, an iontophoresis apparatus from Motion Control, Inc. determines a value of an output current to that of an output voltage when a direct current is applied to a subject. If the value of the output current is less than a